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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/804,480 | 03/19/2004 | Roger K. Richter | COVI:011 | 7259 |

7590 01/28/2008
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| EXAMINER |
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HOLDER, ANNER N

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| ART UNIT | PAPER NUMBER |
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2621

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01/28/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | | |
|------------------------------|------------------------|--|---------------------|--|
| Office Action Summary | Application No. | | Applicant(s) | |
| | 10/804,480 | | RICHTER ET AL. | |
| | Examiner | | Art Unit | |
| | Anner Holder | | 2621 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-72 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-72 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>See Continuation Sheet</u> | 6) <input type="checkbox"/> Other: ____ |

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :12/06/07;
10/02/06; 07/05/05; 05/02/05; 09/07/04.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenoyer et al. (Kenoyer) US 2003/0048353 A1 in view of Washino et al. (Washino) US 5,537,157.

3. As to claim 1, Kenoyer teaches a method of providing multiple images for transmission across an analog interface, comprising: receiving at least one digital image data input stream, said digital image data input stream containing digital image information; [Figs. 3, 4, and 7; Pg. 1 ¶ 0012-0013; Pg. 3 ¶ 0033; Pg. 4 ¶ 0038-0040] creating at least two digital image data streams from said at least one digital data input stream, each of said at least two digital image data streams comprising at least a portion of said digital image information; [Figs. 3, 4, and 7; Pg. 1 ¶ 0012-0013; Pg. 3 ¶ 0033; Pg. 4 ¶ 0038-0040] merging said at least two digital image data streams into a common digital image data output stream. [Fig. 5; Pg. 4 ¶ 0039-0040]

Kenoyer does not specifically teach converting said common digital image data output stream into an analog image output stream; and providing said analog output image stream for transmission across said analog interface.

Washino teaches converting said common digital image data output stream into an analog image output stream; [Figs. 2a-2c; Col. 6 Lines 25-44; Col. 6 Line 63 – Col. 7 Line 23; Col. 7 Line 52 – Col. 8 Line 11] and providing said analog output image stream for transmission across

said analog interface. [Figs. 2a-2c; Col. 6 Lines 25-44; Col. 6 Line 63 – Col. 7 Line 23; Col. 7 Line 52 –Col. 8 Line 11]

It would have been obvious to one of ordinary skill in the art to incorporate the teachings of with the teachings of Washino, allowing for the manipulation of final video format.

4. As to claim 2, Kenoyer (modified by Washino) teaches one of said at least two digital image data streams comprises a first image having a first resolution; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0039; Figs. 3-5] wherein another of said at least two digital image data streams comprises a second image having a second resolution; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0039; Figs. 3-5] and wherein at least one of: said first and second resolutions are different, or said first image comprises a different portion of said digital image data input stream than said second image, or a combination thereof. [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0039; Pg. 5 ¶ 0043; Figs. 3-5, 7]

5. As to claim 3, Kenoyer (modified by Washino) teaches said at least one digital image data input stream comprises a digital video signal received from a digital video source; [Kenoyer – Pg. 2 ¶ 0025; Pg. 4 ¶ 0038; Washino – Figs. 2a-c; Col. 6 Lines 25-44; Col. 6 Line 62 - Col. 7 Line 23] and wherein said method further comprises providing said analog output image stream as an analog video signal for transmission across said analog interface. [Washino – Figs. 2a-c; Col. 6 Line 62 - Col. 7 Line 23]

6. As to claim 4, Kenoyer (modified by Washino) teaches receiving said analog video signal from across said analog interface, said analog video signal comprising said first and second images. [Kenoyer – Fig. 1; Pg. 2 ¶ 0023; Washino – Figs. 2a-c; Col. 6 Lines 25-44; Col. 6 Line 62 - Col. 7 Line 23]

7. As to claim 5, Kenoyer (modified by Washino) teaches displaying said first and second images of said analog video signal on an analog display device. [Kenoyer – Pg. 5 ¶ 0044; Figs. 1, 3, and 7; Washino – Figs. 2a-c; Col. 6 Lines 25-44; Col. 6 Line 62 - Col. 7 Line 23]

8. As to claim 6, Kenoyer (modified by Washino) teaches creating a third digital image data stream from said at least one digital data input stream, said third digital image data stream comprising at least a portion of said digital image information and having a third resolution; converting said third digital image data stream into a second analog image output stream; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7] and providing said second analog output image stream as a second analog video signal for transmission across a second analog interface; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7; Washino - Figs. 2a-2c; Fig. 4; Col. 6 Lines 25-44; Col. 6 Line 63 – Col. 7 Line 23; Col. 7 Line 52 –Col. 8 Line 11; Col. 10 Lines 11-38; Col. 11 Lines 49-60] receiving said second analog video signal from across said second analog interface, said analog video signal comprising said third image; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7; Washino - Figs. 2a-2c; Fig. 4; Col. 6 Lines 25-44; Col. 6 Line 63 – Col. 7 Line 23; Col. 7 Line 52 –Col. 8 Line 11] and displaying said third image of said second analog video signal on a second analog display device; [Kenoyer – Pg. 3 ¶ 0033; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0044; Figs. 1, 3-5 and 7; Washino – Figs. 2a-c; Fig. 4; Col. 6 Lines 25-44; Col. 6 Line 62 - Col. 7 Line 23] wherein at least one of: said third resolution is different from said first and second resolutions, or said third image comprises a different portion of said digital image data, or a combination thereof. [Kenoyer – Pg. 1 ¶ 0012; Pg. 3 ¶ 0033; Figs. 4-5; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7]

9. As to claim 7, Kenoyer (modified by Washino) teaches said creating further comprises extracting a window area from said original image information and scaling said extracted window area to create said third image as a zoomed image; and further comprising controlling a value of said scaling in real time based at least in part on a command signal, or controlling the position of said extracted window area relative to said original image in real time based at least in part on a command signal, or a combination thereof. [Kenoyer – Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 4-5; Fig. 7]

10. As to claim 8, Kenoyer (modified by Washino) teaches said first and second resolutions are different and wherein said method further comprises displaying said first image at said first resolution while simultaneously displaying said second image at said second resolution. [Kenoyer – Pg. 4 ¶ 0038-0040; Figs. 4-5; Fig. 7]

11. As to claim 9, Kenoyer (modified by Washino) teaches said creating further comprises using scaling to create said first image as a zoomed image prior to said step of merging; wherein said second image is not a zoomed image; and wherein said step of displaying comprises displaying said zoomed first image on an analog display device while simultaneously displaying said second unzoomed image on said same analog display device. [Kenoyer – Pg. 4 ¶ 0038-00340; Pg. 5 ¶ 0043; Figs. 4-5; Fig. 7; Washino – Figs. 2a-c; Fig 4; Col. 6 Line 63- Col. 7 Line 23; Col. 7 Line 52 – Col. 8 Line 11]

12. As to claim 10, Kenoyer (modified by Washino) teaches controlling a value of said scaling in real time based at least in part on a command signal. [Kenoyer – Pg. 2 ¶ 0026; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 4-5; Fig. 7]

13. As to claim 11, Kenoyer (modified by Washino) teaches said digital image information comprises an original image; wherein said step of creating said first image comprises extracting a window area from said original image information to create said first image prior to said step of merging; and wherein said step of displaying comprises displaying said first image on an analog display device while simultaneously displaying said second image on said same analog display device. [Kenoyer – Pg. 3 ¶ 0033; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 4-5; Fig. 7; Washino - Figs. 2a-c; Fig 4; Col. 6 Line 63- Col. 7 Line 23; Col. 7 Line 52 – Col. 8 Line 11]

14. As to claim 12, Kenoyer (modified by Washino) teaches controlling the position of said extracted window area relative to said original image in real time based at least in part on a command signal. [Kenoyer – Pg. 2 ¶ 0026]

15. As to claim 13, Kenoyer (modified by Washino) teaches said digital image information comprises an original image; wherein said step of creating said first image comprises extracting a window area from said original image information and then upscaling said window area to create said first image as a zoomed image prior to said step of merging; and wherein said step of creating further comprises downscaling said original image information to create said second image; and wherein said step of displaying comprises displaying said zoomed first image on an analog display device while simultaneously displaying said downscaled second image on said same analog display device, said second image being downscaled such that it does not occupy the full analog display space of said analog display device, and said first image being displayed on at least a portion of said analog display device that is not occupied by said second image. [Kenoyer – Pg. 2 ¶ 0026; Pg. 3 ¶ 0033; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 4-5; Fig. 7; Washino - Figs. 2a-c; Fig 4; Col. 6 Line 63- Col. 7 Line 23; Col. 7 Line 52 – Col. 8 Line 11]

16. As to claim 14, Kenoyer (modified by Washino) teaches said original image information comprises a high resolution digital image. [Kenoyer – Pg. 3 ¶0033]

17. As to claim 15, Kenoyer (modified by Washino) teaches at least one of controlling the position of said extracted window area relative to said original image in real time based at least in part on a command signal; controlling a value of said upscaling of said extracted window area in real time based at least in part on a command signal; or a combination thereof. [Kenoyer – Pg. 2 ¶ 0026; Pg. 5 ¶ 0043]

18. As to claim 16, Kenoyer (modified by Washino) said at least two digital image data streams comprises at least four digital image data streams; wherein a first one of said at least four digital image data streams comprises a first image having a first resolution; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7] wherein a second one of said at least two digital image data streams comprises a second image having a second resolution; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7] wherein a third one of said at least four digital image data streams comprises a third image having a third resolution; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7] and wherein a fourth one of said at least four digital image data streams comprises a third image having a third resolution; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7] wherein each of said at least four images either has a resolution that is different from each of said other at least four images, or comprises a different portion of said digital image data input stream than each of said other of said at least four images, or a combination thereof; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7] wherein said analog video signal comprises said first, second, third and fourth images; [Kenoyer – Pg. 1 ¶ 0012; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 3-5, 7;

Washino - Figs. 2a-2c; Fig. 4; Col. 6 Lines 25-44; Col. 6 Line 63 – Col. 7 Line 23; Col. 7 Line 52 – Col. 8 Line 11] wherein said digital image information comprises an original high resolution image, and wherein said step of creating said first, second and third images comprises extracting respective first, second and third window areas from said original image and then upscaling said first, second and third window areas to create said first, second and third images as zoomed images prior to said step of merging; [Kenoyer – Pg. 2 ¶ 0026; Pg. 4 ¶ 0038-00340; Pg. 5 ¶ 0043; Figs. 4-5; Fig. 7; Washino – Figs. 2a-c; Fig 4; Col. 6 Line 63- Col. 7 Line 23; Col. 7 Line 52 – Col. 8 Line 11] wherein said step of creating further comprises downscaling said original image information to create said fourth image; [Kenoyer – Pg. 2 ¶ 0026; Pg. 4 ¶ 0038-00340; Pg. 5 ¶ 0043; Figs. 4-5; Fig. 7] and wherein said step of displaying comprises displaying said zoomed first, second, and third zoomed images on an analog display device while simultaneously displaying said downscaled fourth image on said same analog display device, said fourth image being downscaled such that it does not occupy the full analog display space of said analog display device, and said first, second and third images being displayed on at least a portion of said analog display device that is not occupied by said fourth image. [Kenoyer – Pg. 2 ¶ 0026; Pg. 3 ¶ 0033; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043; Figs. 4-5; Fig. 7; Washino - Figs. 2a-c; Fig 4; Col. 6 Line 63- Col. 7 Line 23; Col. 7 Line 52 – Col. 8 Line 11]

19. As to claim 17, see the rejection of claim 15 above.
20. As to claim 18, see rejection of claim 6 above.
21. As to claim 19, see rejection of claim 2 above.
22. As to claim 20, see rejection of claim 3 above.
23. As to claim 21, see rejection of claim 6 above.

24. As to 22, see rejection of claim 10 above.
25. As to claim 23, Kenoyer (modified by Washino) teaches receiving said composite analog video stream containing said first and second images from across said interface; [Kenoyer – Fig. 5; Fig. 7; Pg. 4 0038-0040; Pg. 5 ¶ 0043; Washino – Fig. 6; Col. 12 Lines 24-39] and displaying said first and second images contained in said composite analog video stream on a common analog display device. [Kenoyer – Pg. 5 ¶ 0044; Figs. 1, 3, and 7; Washino – Figs. 2a-c; Col. 6 Lines 25-44; Col. 6 Line 62 - Col. 7 Line 23]
26. As to claim 24, see rejection of claim 15 above.
27. As to claim 25, see rejection of claim 10 above.
28. As to claim 26, see rejection of claim 15 above.
29. As to claim 27, see rejection of claim 16 above.
30. As to claim 28, see rejection of claim 13 above.
31. As to claim 29, see rejection of claim 13 above.
32. As to claim 30, see rejection of claim 6 above.
33. As to claim 31, see the rejection of claim 15 above.
34. As to claim 32, see rejection of claim 12 above.
35. As to claim 33, see rejection of claim 1 above.
36. As to claim 34, see rejection of claim 2 above.
37. As to claim 35, see rejection of claim 3 above.
38. As to claim 36, Kenoyer (modified by Washino) teaches an analog display device coupled to said analog interface and configured to receive said analog video signal from across said analog interface and to simultaneously display said first and second images of said analog

video signal. [Kenoyer – Fig. 1; Figs. 4-5; Pg. 2 ¶ 0023; Pg. 4 ¶ 0038-0040; Washino – Figs. 2a-c; Col. 6 Lines 25-44; Col. 6 Line 62 - Col. 7 Line 23]

- 39. As to claim 37, see rejection of claim 6 above.
- 40. As to claim 38, see rejection of claim 7 above.
- 41. As to claim 39, see rejection of claim 8 above.
- 42. As to claim 40 see rejection claim 9 above.
- 43. As to claim 41, see rejection of claim 10 above.
- 44. As to claim 42, see rejection of claim 13 above.
- 45. As to claim 43, see rejection of claim 12 above.
- 46. As to claim 44, see rejection of claim 13 above.
- 47. As to claim 45, see rejection of claim 14 above.
- 48. As to claim 46, see rejection of claim 7 above.
- 49. As to claim 47, see rejection of claim 16 above.
- 50. As to claim 48, see rejection of claim 15 above.
- 51. As to claim 49, see rejection of claim 6 above.
- 52. As to claim 50, see rejection of claim 2 above.
- 53. As to claim 51, see rejection of claim 3 above.
- 54. As to claim 52, see rejection of claim 6 above.
- 55. As to claim 53, see rejection of claim 10 above.
- 56. As to claim 54, see rejection of claim 23 above.
- 57. As to claim 55, see rejection of claim 15 above.
- 58. As to claim 56, see rejection of claim 10 above.

59. As to claim 57, see rejection of claim 15 above.
60. As to claim 58, see rejection of claim 16 above.
61. As to claim 59, see rejection of claim 13 above.
62. As to claim 60, see rejection of claim 13 above.
63. As to claim 61, see rejection of claim 6 above.
64. As to claim 62, see rejection of claim 15 above.
65. As to claim 63, see rejection of claim 12 above.
66. As to claim 64, see rejection of claim 4 above.
67. As to claim 65, Kenoyer (modified Washino) teaches said multiple resolution image creation circuitry comprises multi-resolution image processing circuitry that comprises at least one window circuitry component, at least one image scaler circuitry component, and at least one frame buffer circuitry component. [Kenoyer – Figs. 3-5; Fig. 7; Pg. 1 ¶ 0012; Pg. 2 ¶ 0013; Pg. 3 ¶ 0032-0033; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043]
68. As to claim 66, Kenoyer (modified Washino) teaches least two analog devices, each of said at least two analog display devices being coupled to said multiple resolution image creation circuitry by a separate respective analog interface. [Kenoyer – Abstract; Fig. 1; Figs. 3-4; Kenoyer – Pg. 5 ¶ 0044; Washino – Figs. 2a-c; Col. 6 Lines 25-44; Col. 6 Line 62 - Col. 7 Line 23]
69. As to claim 67, see rejection of claim 7 above.
70. As to claim 68, Kenoyer (modified Washino) teaches said command signals comprise camera control commands. [Kenoyer – Fig. 1; Fig. 4; Pg. 2 ¶ 0023, 0026; Pg. 3 ¶ 0027-0029; Washino – Fig. 2a-c; Fig. 4; Col. 3 Line 51- Col. 4 Line 5]

71. As to claim 69, see rejection of claim 1 above.

72. As to claim 70. Kenoyer (modified Washino) teaches receiving said common digital image data output stream from across said digital interface, said common digital image data output stream comprising said first and second images; [Figs. 3, 4, and 7; Pg. 1 ¶ 0012-0013; Pg. 3 ¶ 0033; Pg. 4 ¶ 0038-0040; Washino - Figs. 2a-c; Fig. 4; Fig. 6; Col. 6 Lines 25-44; Col. 6 Line 63 - Col. 7 Line 23] and storing said first and second images, displaying said first and second images on a display device, or a combination thereof. [Kenoyer – Figs. 3-5; Fig. 7; Pg. 1 ¶ 0012; Pg. 2 ¶ 0013; Pg. 3 ¶ 0032-0033; Pg. 4 ¶ 0038-0040; Pg. 5 ¶ 0043]

73. As to claim 71, see rejection of claim 1 above.

74. As to claim 72, see rejection of claim 70 above.

Conclusion

75. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anner Holder whose telephone number is 571-270-1549. The examiner can normally be reached on M-Th, M-F 8 am - 3 pm EST.

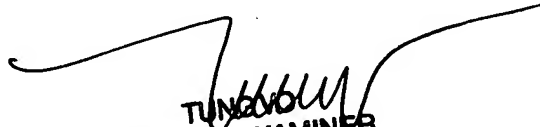
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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ANH 01/08/08



TUNG VO
PRIMARY EXAMINER